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## 21 [Office-by-example: an integrated office system and database manager](#)

Kyu-Young Whang, Art Ammann, Anthony Bolmarcich, Maria Hanrahan, Guy Hochgesang, Kuan-Tsae Huang, Al Kh Vance Waddle, Moshé Zloof

October 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 4

Full text available: [pdf\(2.86 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Office-by-Example (OBE) is an integrated office information system that has been under development at IBM Research Corporation. It provides various office features such as database tables, word processing, electronic mail, graphics, images, and so forth. Applications involving example elements are processed by a language feature called example elements.

## 22 [Stateful distributed interposition](#)

John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available: [pdf\(833.84 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index to](#)

Interposition-based system enhancements for multitiered servers are difficult to build because important system boundaries. For example, resource quotas and user identities do not propagate easily between cooperating servers. Each other via intermediary services. Application-transparent system enhancement is difficult to achieve when servers are distributed.

**Keywords:** Distributed computing, component services, distributed context, multitiered services, operating system

## 23 [Zones, contracts and absorbing changes: an approach to software evolution](#)

Huw Evans, Peter Dickman

October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming and applications**, Volume 34 Issue 10

Full text available: [pdf\(2.46 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes a novel approach to managing the evolution of distributed, persistent systems at run-time. Each of which can be evolved without affecting code in any other. Contracts are defined between zones, making explicit. Programmer supplied code is added to the running system, at the boundary between zones, to constrain the evolution of the system.

## 24 [Design technologies: A software reverse engineering experience](#)

Erich Buss, John Henshaw

October 1991 **Proceedings of the 1991 conference of the Centre for Advanced Studies on Collaborative Computing**

Full text available: [pdf\(1.19 MB\)](#)

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